1 **COMBINED INDEPENDENT AUDIO SYSTEMS**
2 .Changeover between audio systems
3 ..Fading between plural signals
4 .Combining signals to form composite (e.g., mixing)
5 .One of systems having plural concurrent signals (e.g., stereophonic)
6 .Radio
7 ..Including recording from radio
8 ..Oscillator modulated by retrieved information signal
9 ..Mechanical phonograph
10 ..With common cabinet for cartridge or cassette
11 ..Including separable assembly
12 ..Cabinet details
13.01 **STORAGE OR RETRIEVAL BY SIMULTANEOUS APPLICATION OF DIVERSE TYPES OF ELECTROMAGNETIC RADIATION**
13.02 .Magnetic field and light beam
13.03 ..Initializing
13.04 ..Erasing
13.05 ..Reading
13.06 ...By transferring magnetic domain between layers
13.07 ....Three or more magnetic layers
13.08 .....Changing size of magnetic domain
13.09 ....Changing size of magnetic domain
13.1 ..Three or more magnetic states
13.11 ..Positioning of transducer assembly for storage or retrieval
13.12 ..Relative positioning of transducer assemblies
13.13 ..Integral transducers
13.14 ..Magnetic field generation
13.15 ...Leakage magnetic field
13.16 ...Overwriting
13.17 ...Magnetic field transducer assembly
13.18 ....Permanent magnet
13.19 .....Rotating magnet
13.2 ....Operative location positioning of transducer assembly
13.21 .....During load and unload of storage medium
13.22 ...Magnetic field generating circuit
13.23 ....Conductor coil
13.24 ..Light beam generation
13.25 ...Overwriting
13.26 ...Setting light beam power level
13.27 ....Based on referenced test signal
13.28 ...Multiple light beams
13.29 ...Polarized light beam
13.3 ....Plural polarization
13.31 ....Linear polarization
13.32 ...Light beam transducer assembly
13.33 ....Near field optic
13.34 ..In compact size assembly
13.35 ..Specific detail of recording medium
13.36 ...In protective jacket
13.37 ...Tape or card
13.38 ...Specific detail of layer (e.g., bias or initializing layers, etc.)
13.39 ....Plural distinct storage layers
13.4 ....Plural layers having particular order
13.41 ....Plural magnetic layers (e.g., recording and reproducing layers)
13.42 .....Three or more magnetic layers (e.g., recording, intermediate, and reproducing layers, etc.)
13.43 ......In-plane magnetization layer
13.44 ......Exchange-coupling magnetization layer
13.45 ......Rare earth or metal alloy
13.46 ......Temperature or coercivity
13.47 ......Magnetic domain wall
13.48 .....In-plane magnetization layer
13.49 .....Exchange-coupling magnetization layer
13.5 .....Rare earth or metal alloy
13.51 .....Temperature or coercivity
13.52 .....Magnetic domain wall
13.53 ....Thickness of layer
13.54 ...Recording mark dimension
13.55 ...Land or groove track
13.56 **STORAGE DIFFERENT FROM RETRIEVAL (E.G., OPTICAL RECORDING AND MAGNETIC REPRODUCTION)**
300 **DETAIL OF OPTICAL SLIDER PER SE**

14 **SIMULTANEOUS DIVERSE TYPES OF STORAGE OR RETRIEVAL**
15 **ALTERNATIVE DIVERSE TYPES OF STORAGE OR RETRIEVAL**
16 **MECHANICAL PRODUCTION OF OPTICAL STORAGE TRACK**
17 **TRACK CONVERSION**
18 **OPTICAL READING OF MECHANICAL RECORD**

Class 360 is an integral part of this Class (Class 369), as shown by the position of this box, and follows the schedule hierarchy of this Class, retaining all pertinent definitions and Class lines of this class.

19 **CONTROL BY TIMER OR EXTERNAL EXTRANEOUS CONDITION**
20 .By diverse art device
21 ..In vehicle or elevator
22 ..Audible indicator
23 ...Talking clock
24.01 **INFORMATION LOCATION OR REMOTE OPERATOR ACTUATED CONTROL**
25.01 .Dictation or transcribing
26.01 ..Privacy
27.01 ..With access to or marking of specified location (e.g., indexing)
28.01 ...By stored additional signal (e.g., tone)
29.01 ..Remote station
29.02 ..Portable device
30.01 .Selective addressing of storage medium (e.g., programmed access)
30.02 ..Novelty device (e.g., talking doll)
30.03 ..Of optical storage medium
30.04 ...Using recorded information indicative of storage medium contents
30.05 ....Copying or editing
30.06 ....Plural storage medium elements (e.g., "juke box")
30.07 ....Specified contents information modification processing
30.08 ....Designating particular order of contents (e.g., sequential playing back by playlist)
30.09 .....Specified order of contents information modification processing
30.1 ...Transducer movement control using recorded information indicative of location of information (e.g., track address)
30.11 ....Location information correction
30.12 ....Particular track portion
30.13 ....Counting tracks traversed by transducer
30.14 .....Count correction
30.15 ....Multiple movement control modes
30.16 .....Specific detail of terminating
30.17 ....Transducer velocity control
30.18 ...Electrical information signal processing
30.19 ....Copying or editing
30.2 ....Plural storage medium elements
30.21 ....Monitoring signal error or verification
30.22 .....Correction of error
30.23 ....Buffering
30.24 ....Abnormal condition or changing mode of system
30.25 ....Auxiliary information
30.26 ...Remote operating mode control
30.27 ...Electrical control signal processing
30.28 ....Plural storage medium elements
30.29 .....Matching control signal
30.3 .....Of information indicative of contents or particular order of contents
30.31 .....For operation of storage medium gripper, accessor, or transfer member
30.32 .....For record medium loading or ejecting
30.33 .....For radial array positioning of unitary plural storage medium carrier
30.34 .....For linear array positioning of unitary plural storage medium carrier (e.g., horizontal or vertical positioning)

30.35 .....For relative positioning between storage medium elements
30.36 ....Abnormal condition or changing mode of system
30.37 ....Of particular order of contents
30.38 ...Plural optical storage media in library system
30.39 ....Modular library system
30.4 ....Plural media are discs stored in cartridges
30.41 .....Having specified disc rack
30.42 .....Having particular removable magazine
30.43 .....Having specified picker
30.44 ......Of carousel library system
30.45 .....Picker support structure (i.e., mechanism for moving picker)
30.46 .....Having specified disc drive
30.47 ......Drive moves into alignment with disc
30.48 .....Having particular mechanism or slot for transferring disc into library from outside
30.49 .....Linear vertical or horizontal array
30.5 .....Carousel array
30.51 ....Plural media are unprotected (i.e., discs that are not in cartridges)
30.52 .....Having specified disc rack
30.53 .....Having particular removable magazine
30.54 .....Mounting or locking magazine to library system
30.55 .....Having specified picker
30.56 ......Of carousel library system
30.57 .....Picker support structure detail (i.e., mechanism for moving picker)
30.58 .....Having specified disc drive
30.59 ......Drive moves into alignment with disc
30.6 .....Having particular mechanism or slot for transferring disc into library from outside
30.61 .....Linear vertical or horizontal array
30.62 .....Carousel array
30.63 ....Having particular cabinet
30.64 ...Plural optical storage media in disc changer
30.65 ....Plural media are discs stored in cartridges
30.66 .....Having specified stocker or internal magazine
30.67 .....Stocker or internal magazine is adjustable or movable
30.68 .....Having particular removable magazine
30.69 .....Mounting or locking magazine to disc changer
30.7 .....Having particular internal transfer mechanism for transferring disc while disc is inside of disc changer
30.71 ......Of carousel changer
30.72 .....Having particular internal support structure for internal transfer mechanism
30.73 .....Having specified drive
30.74 ......Movable drive
30.75 .....Having particular mechanism or slot for transferring disc into changer from outside
30.76 ....Plural media are unprotected (i.e., discs that are not in cartridges)
30.77 .....Having specified stocker or internal magazine
30.78 .....Stocker or internal magazine is adjustable or movable
30.79 ......In carousel changer
30.8 ....Positioning mechanism
30.81 .....Having disc reproduced while entirely in magazine
30.82 .....Having disc reproduced while partially in magazine
30.83 .....Having particular removable magazine
30.84 .....Mounting or locking magazine to disc changer
30.85 .....Having particular internal transfer mechanism for transferring disc while disc is inside of disc changer
30.86 ......Of carousel changer
30.87 .....Having specified internal support structure for internal transfer mechanism
30.88 .....Having specified drive
30.89 ......Movable drive
30.9 .....Having particular mechanism or slot for transferring disc into changer from outside
30.91 ......Of carousel changer
30.92 ......Plural trays

30.93 ......One tray for multiple discs
30.94 ....Loading mechanism
30.95 ....Chucking mechanism
30.96 ....Locking mechanism
30.97 ....Positioning mechanism
30.98 ....Having single motor that drives multiple mechanisms
30.99 ......One tray for single disc
31.01 ....Having particular cabinet
32.01 ..Specified electrical information signal processing
33.01 ..Specified electrical control signal processing
34.01 ...Plural storage medium elements
35.01 ..Plural nontranslating storage elements (e.g., in situ)
36.01 ..Unitary plural record carrier
37.01 ...Radial array
38.01 ...Moving linear array
39.01 ...Scanning turntable
40.01 ..By manually actuated mechanism for movement of tone arm
41.01 ..Of track on single storage medium
42.01 .By mechanical linkage
43 **WITH SERVO POSITIONING OF TRANSDUCER ASSEMBLY OVER TRACK COMBINED WITH INFORMATION SIGNAL PROCESSING**
44.11 .Optical servo system
44.12 ..Solid state optical element with plural dissimilar optical components (e.g., using I.C. block, etc.)
44.13 ..Dithering or wobbling the beam or track
44.14 ..Optical head servo system structure
44.15 ...Elastic, flexible, pliant or spring support of lens or mirror
44.16 ....Flat flexible support (e.g., parallel leaf spring, etc.)
44.17 ...Optical head element with rotary motion
44.18 ....Rotary head wheel or scanner (e.g., for use with arcuate, transverse or slant tracks, etc.)
44.19 ....Head element pivots on arm (e.g., optical head disc arm etc.)
44.21 ....Lens or mirror pivots off center (e.g., on a shaft, etc.)
44.22 ...Lens or mirror floats, (e.g., magnetic field support or lens/mirror can freely float and pivot about its own axis, etc.)
44.23 ...Structure for shaping beam or causing astigmatic condition
44.24 ....Means to mask or shield a portion of the beam
44.25 ..Servo signal compared to a reference signal
44.26 ..Servo system operation related to disc structure information format
44.27 ..Initialization/start-up or changing modes of system
44.28 ...While track jumping or crossing
44.29 ...Servo loop gain/switching control
44.31 ....Recording
44.32 ..Means to compensate for defect or abnormal condition
44.33 ...Recording (e.g., inhibit recording upon defect, etc.)
44.34 ..Sampling servo system
44.35 ..Servo loop gain/switching control
44.36 ...Variable gain
44.37 ..Plural incident beams
44.38 ...Recording
44.39 ..Recording
44.41 ..Arithmetic operation using plural photodetectors
44.42 ...Beam or detector is not rectangular or circular
47.1 **CONTROL OF STORAGE OR RETRIEVAL OPERATION BY A CONTROL SIGNAL TO BE RECORDED OR REPRODUCED**
47.11 .Control of initiation of pause mode
47.12 .For copying
47.13 .For editing
47.14 .By medium defect indicative control signal
47.15 .Control of information signal processing channel
47.16 ..Of plural interrelated channels
47.17 ..For removal of unwanted signal component
47.18 ..For interpolating or drop-out correcting
47.19 ..For modulating or demodulating
47.2 ..For multiplexing or demultiplexing

47.21 ...Of sub-code information
47.22 ....Having location identification information
47.23 ..For sequencing or switching
47.24 ...Between alternative processing channels
47.25 ..For gain processing
47.26 ...Within a frequency band
47.27 ...Using a reproduced information of specified preformat, header, or reference area
47.28 ..For phase, timing, or rate processing
47.29 ...During retrieval at dynamic retrieval rate different from storage rate
47.3 ...While changing of system mode or dynamic retrieval rate
47.31 ...Using program or address signal
47.32 ...Including static memory accessing
47.33 ....Including static memory fill level monitoring or controlling
47.34 ....Including static memory write address controlling
47.35 ..For sampling, digital to analog or analog to digital converting
47.36 .Mechanism control by the control signal
47.37 ..Control of spiral track spacing (e.g., signal variable pitch)
47.38 ..Control of relative motion producing mechanism
47.39 ...During initialization or start-up
47.4 ...Responsive to change in transduced location
47.41 ...Responsive to change in transduced information characteristic
47.42 ...Responsive to stand-by or pause mode operation
47.43 ...Having different storage and retrieval relative motion
47.44 ...Responsive to abnormal condition
47.45 ...By a selected relative motion error signal
47.46 ...By information signal characteristic
47.47 ...By program or address signal
47.48 ...By synchronous signal
47.49 ..Control of transducer assembly mechanism
47.5 ...Power control for energy producing device
47.51 ....For storage
47.52 .....During multiple system modes
47.53 .....Stored and retrieved testing signal
47.54 ...By program or address signal
47.55 ..During initialization or start-up or changing system mode
52.1 **CONTROL STRUCTURE ON STORAGE MEDIUM SENSED BY OTHER THAN TRANSDUCER SUPPORT (E.G., CONDUCTIVE STRIP, NOTCHED EDGE SENSOR)**
53.1 **CONDITION INDICATING, MONITORING, OR TESTING**
53.11 .Including radiation storage or retrieval
53.12 ..Having abnormal condition indicating
53.13 ...Due to unwanted operational condition of record carrier
53.14 ....Eccentricity or warp
53.15 ....Defect
53.16 .....Including storage or retrieval of auxiliary signal
53.17 ......Defect location indicating
53.18 ...System disturbance
53.19 ...Relative transducer to medium misalignment (e.g., relative tilt)
53.2 ..Of record carrier
53.21 ...For protection
53.22 ...By detection of storage medium incident radiation
53.23 ....Derived focusing or tracking related signal
53.24 ...Having unrecorded location indicating
53.25 ..Of transducer assembly mechanism
53.26 ...Energy producing device
53.27 ....By detection of storage medium incident radiation
53.28 ...Focusing or tracking servo
53.29 ...Transduced location indicating
53.3 ..Of relative motion producing mechanism
53.31 ..Of storage or retrieval information signal
53.32 ...Dropout indicating
53.33 ...Unwanted signal component indicating

53.34 ...Time based parameter
53.35 ...Signal error correcting or detecting
53.36 ....During storage
53.37 ..Initialization or start-up mode or changing system mode:
53.38 .Of transducer assembly mechanism
53.39 ..Transducer location indicating
53.4 ..Positioning adjunct
53.41 .Of record carrier
53.42 .Having abnormality condition indicating
53.43 .Of relative motion producing mechanism
53.44 .Of storage or retrieval information signal
53.45 .Initialization or start-up mode or changing system mode
59.1 **BINARY PULSE TRAIN INFORMATION SIGNAL**
59.11 .Binary signal processing for controlling recording light characteristic
59.12 ..Pulse forming by adjusting binary signal phase or shifting binary signal pulse
59.13 .Selecting from a plurality of binary processing types
59.14 .Changing a system mode
59.15 .Binary signal gain processing
59.16 ..Within a frequency band
59.17 .Binary signal level detecting using a reference signal
59.18 ..Plural reference signals
59.19 .Binary signal detecting using a clock signal
59.2 .Binary signal phase processing
59.21 .Including sampling or A/D converting
59.22 ..By interpolating or maximum likelihood detecting
59.23 .Having specific code or form generation or regeneration processing
59.24 ..During storage
59.25 .Format arrangement processing for auxiliary information
59.26 .Binary signal processing of sectioned information
59.27 .Binary signal multiplexing or demultiplexing
60.01 **SIGNAL PROCESSING BY STORAGE AND SUBSEQUENT RETRIEVAL (E.G., FREQUENCY SHIFT, DELAY, ETC.)**
61 **STORAGE OF DIRECTLY RETRIEVABLE MODULATED R.F. OR SUPERAUDIBLE CARRIER SIGNAL**
62 **STORAGE OF SIGNAL MODULATING COMPONENT**
63 **SOUND REPRODUCTION FOR TOY OR NOVELTY DEVICE (E.G., TALKING DOLL)**
64 .With electrical information signal processing
65 .Indexing to track (e.g., consecutive)
66 ..By chance
67 .With beginning or end of cycle stylus return
68 .Manual motion application (e.g., novelty card, hand-held stylus)
69 **SYSTEMS OR SUBSYSTEMS COMBINED WITH DIVERSE ART DEVICE**
70 .For control of diverse art device
71 **WITH STYLUS CLEANING OR TREATMENT (E.G., GRINDING)**
72 **WITH STORAGE MEDIUM CLEANING OR ELECTROSTATIC CHANRGE NEUTRALIZATION**
73 .By charge leakage (e.g., ionized particles)
74 .By tone arm attachment
75.1 **WITH PARTICULAR CABINET STRUCTURE**
75.2 .With mechanism to place disc on a turntable
76 .With electrical information signal processing
77.1 .Slotted for edgewise insertion of storage disc
77.2 ..Having disc stored in protective jacket
78 .With lid-mounted transducer assembly carrier
79 .With closure-operated interlock or braking actuator
80 .Particular acoustical structure (e.g., baffle)
81 ..Having collapsible or expandable acoustic path
82 ..Having parallel acoustic paths
83 **EDITING OF STORED INFORMATION**
84 **DUPLICATION OR COPYING (E.G., RERECORDING)**
85 .To diverse type of storage medium

86 **STORAGE OR RETRIEVAL OF SPATIALLY RELATED ACOUSTIC SIGNALS (E.G., STEREO)**
87 .Simulated spatial effect (e.g., pseudo-stereo)
88 .With transformation or intentional distortion of information signal (e.g., preemphasis)
89 .Quadraphonic
90 ..Including modulated subchannel signal
91 .Having distinct electrical channels
92 .Including distinct storage tracks on record medium
93 **SYSTEMS HAVING PLURAL PHYSICALLY DISTINCT INDEPENDENT TRACKS ON A SINGLE STORAGE MEDIUM SURFACE**
94 .Having layered storage medium
95 .Common time base (i.e., simultaneous)
96 .Continuous consecutive storage or retrieval of interrupted track for single signal (e.g., automatic reversal)
97 ..Tracks transverse to a motion component
98 .Indexing to discrete signal tracks (e.g., consecutive, by chance)
99 **SPECIFIC DETAIL OF INFORMATION HANDLING PORTION OF SYSTEM**
100 .Radiation beam modification of or by storage medium
101 ..Invisible radiation (e.g., electron beam or X-ray)
102 ..Multiplex
103 ..Holographic
104 ..Ribbon light modulator
105 ..Penumbra or push-pull optical system
106 ..Optical feedback
107 ..Ground noise suppression, signal envelope, or plural optical modulation
108 ..Color
109.01 ..Diffractive storage medium information element
109.02 ...Plural elements with distinct diffractive characteristics
110.01 ..Polarization of or by storage medium information element
110.02 ...Separation into plural polarization component beams
110.03 ....By diffraction
110.04 ....Using plural polarized or polarizing optical elements
111 ..Spiral or helical track
112.01 ..Having particular optical element or particular placement thereof in radiation beam path to or from storage medium
112.02 ...Crystal (e.g., liquid, elasto-optic, photo-refractive, etc.)
112.03 ...Diffractive
112.04 ....Plural distinct diffractive optical elements
112.05 ....In radiation beam path to storage medium
112.06 .....Sectioned optical element
112.07 ......Plural diffractive sections
112.08 ......Lens section
112.09 ......Prism, mirror, or waveguide section
112.1 .....Holographic
112.11 ....Sectioned optical element
112.12 .....Plural diffractive sections
112.13 .....Lens section
112.14 .....Prism, mirror, or waveguide section
112.15 ....Holographic
112.16 ...Polarized or polarizing
112.17 ....Plural distinct polarized optical elements
112.18 ....Sectioned optical element
112.19 .....Plural polarizing sections
112.2 .....Lens section
112.21 .....Prism, mirror, or waveguide section
112.22 ...Particular optical filter
112.23 ...Particular lens
112.24 ....Plural distinct lenses
112.25 ....Sectioned element
112.26 .....Plural lens sections
112.27 ...Waveguide
112.28 ...Prism
112.29 ...Mirror
113 ..With medium contacting drum or gate in optical system (e.g., sound head)
114 ...Movable roller support for optical path
115 ...With driving or stabilizing mechanism
116 ..Light intensity adjustment or maintenance

117 ..Having movable shutter or light gate
118 ..With detail, configuration, or adjunct of element having slit or aperture in radiation path
119 ...With movement of optical beam (e.g., galvanometer)
120 ..Having particular radiation sensor
121 ..With particular light source (e.g., laser, CRT with phosphor)
122 ...Solid state
123 ...Glow lamps
124.01 ..With details of electrical signal processing
124.02 ...With transducing multiple tracks
124.03 ...With transducing using plural beams
124.04 ...Modulating or demodulating
124.05 ...Integrating or sampling
124.06 ...Compressing or decompressing
124.07 ...Auxiliary information arrangement processing (e.g., block headers, subcode, or interpolated information, etc.)
124.08 ...Sectioned information processing (e.g., lengths, frames, or blocks, etc.)
124.09 ...Multiplexing or demultiplexing
124.1 ...Gain processing
124.11 ....Of retrieved signal
124.12 .....Of signals obtained from photo-detector components
124.13 .....With specific frequency or frequency range
124.14 ...Rate, phase, or transient processing
124.15 ...Level detecting using reference signal
125 ..Having photographic storage medium (e.g., variable density or area)
126 .Electrical modification or sensing of storage medium (e.g., capacitive, resistive, electrostatic charge)
127 .Mechanical modification or sensing of storage medium
128 ..With electrical information signal processing
129 ...From information modulated oscillator
130 ...Sensing of elastic deformation or relaxation of storage medium (e.g., skid type)
131 ...Bidirectional information flow (e.g., record/replay switching)
132 ...Recording
133 ....With transformation or intentional distortion of information signal (e.g., compensation for velocity variation with diameter)
134 ...With particular amplification characteristic or signal control circuitry (e.g., muting)
135 ..Specified structure of electrical transducing assembly
136 ...Multichannel (stereo cartridge)
137 ....By stress application to solid transducing element (e.g., piezoelectric)
138 .....With adjustable or replaceable stylus coupling structure
139 ....With details of damping or compliance
140 ...Plural styli
141 ...Plural alternative or with signal handling adjunct
142 ...Stylus controlled optical element
143 ...Electron tube
144 ...Electret or piezoelectric
145 ...Semiconductive
146 ...Magnetic field variation (e.g., magnetostrictive)
147 ....Moving signal coil
148 ....Variable reluctance
149 .....Fixed coil surrounding fixed part of magnetic path
150 ...Capacitive or electrolytic liquid
151 ...Electrostatic or capacitive
152 ...Variable resistance
153 ..Including treatment to facilitate storage (e.g., storage medium softening)
154 ...Heating (e.g., heated stylus)
155 ..Mechanical conversion to or from sound
156 ...Including fluid coupling in force linkage

157 ...Sound box with mounting structure
158 ...Acoustical tone arm
159 ....Having plural acoustical paths
160 ...Sound box
161 ....With interchangeable styli
162 ....Including stylus pivoted from fixed casing
163 ....With sound modification
164 ....Convertible between lateral and perpendicular modulation modes
165 ....Perpendicular mechanical modulation
166 .....Recording
167 .....With mechanical amplification (e.g., frictional coupling)
168 .....Floating weight
169 ....Lateral mechanical modulation
170 ..Stylus holder or shield
171 ...With structure to interchange styli
172 ....By replacement
173 ..Stylus
174 .Including signal modification
175 ..Frequency dependent (e.g., separation)
176 **DYNAMIC MECHANISM SUBSYSTEM**
177 .Having stationary storage medium
178.01 .Access of multiple storage elements (e.g., record changer)
179 ..Cylindrical storage element
180 ..Flexible disc
181 ..Stack height adjustment for tone arm or turntable
182 ..Numerical count shut-off
183 ..Cam shaft transverse to turntable spindle axis of record changer
184 ..Tone arm position control by sensing of disc (e.g., disc or hole size)
185 ...Disc size sensor on or using tone arm
186 ...Stepped tone arm stop element
187 ...Disc size sensor in feed path
188 ...Disc size sensor at turntable position
189 ..Turntable speed control
190 ...By sensing of disc (e.g., disc or hole size)
191 ..Storage disc fed to and removed from turntable
192 ...Plural disc holder having unitary separating structure
193 ...Grouped removal with sequential feed
194 ...Coplanar storage
195 ...Both sides of disc used
196 ..Separate motors operate turntable and disc change mechanism
197 ..Plural turntables
198 ...Plural tone arms
199 ..Both sides of disc used
200 ...By inverting disc
201 ..Discs sequentially removed from turntable
202 ..Discs sequentially fed to turntable
203 ...Tone arm set down adjustment
204 ...By edge controlled feeding of disc
205 ....With feed cooperating structure on spindle
206 ...By center hold feeding of disc (e.g., spindle drop)
207 ....Support mechanism adapter for large hole records on small hole spindles
208 ....Having specified spindle structure
209 .....Umbrella type
210 .....Having shoulder and ejector lever
211 ......With edge stabilizer
212 ..Auxiliary structure (e.g., shut-off preventer, disc spacer)
213 .Additional motion of storage element support to effect tracking
214 ..Cylindrical storage element
215 .Having power driven transducer assembly
216 ..Having tone arm set-down control
217 ...By disc sensing (e.g., by sensed disc or hole size)
218 ..Having groove engaging driving element
219 ..With drive transverse to storage track during storage or retrieval
220 ...Controlled by transducer assembly support

221 ...With additional drive (e.g., scanning, restoring, or return)
222 ...Having pivoted tone arm
223 ...By lead screw
224 ..With passive linear tracking
225 ..Restoring after passive tracking
226 ...Responsive to transducer support condition (e.g., movement or position)
227 ....Numerical count replay
228 ....Controllable position
229 ...Turntable mounted template
230 ..Power cueing (i.e., engage/disengage)
231 .Mechanism responsive to control structure on storage medium sensed by transducer assembly support (e.g., trip device)
232 ..With turntable braking (e.g., velocity or reverse responsive)
233 .Mechanism condition or storage medium responsive control
234 ..With turntable braking (e.g., tone arm position responsive)
235 ...With stopping of motor
236 ...Adjustable
237 ...With electrical control of brake
238 ...End limit sensor coupled with tone arm
239 ..Speed
240 ...Variable radius compensation (e.g., constant interaction speed)
241 ...Self-responsive (e.g., governor)
242 ..Antiskating
243 ..Energizing circuit
244 .Specific detail of transducer assembly support structure (e.g., tone arm)
245 ..With manual tone arm displacement adjunct (e.g., cueing)
246 ...With viscous limiting of motion (e.g., rate damping)
247 ..Vibration or resonance suppression (e.g., damping)
248 ...By viscous damping
249 ..Having linear guide
250 ..Pivoted arm with tracking path compensation
251 ..Having application of counterbalancing force
252 ...Lateral (e.g., antiskating)
253 ...By resilient force element (e.g., spring)
254 ...Specified weight mounting
255 ..Having specified bearing structure
256 ..Mechanical details of cartridge mounting
257 ..Rest
258 .Specific detail of storage medium support or motion production
259 ..For endless web looped about plural rotatable mounts (e.g., belt)
260 ..For cylinder
261 ..For pliable (e.g., floppy) disc
262 ..With storage medium removal adjunct
263 ..Mounting structure for support or motion producing assembly (e.g., vibration damping
264 ..Turntable
265 ...With auxiliary turntable
266 ...Driving mechanism
267 ....Speed changing
268 ...Braking
269 ...Bearing structure
270 ...Disc holding or locating (e.g., spindle structure)
271 ....With detail of storage medium contact structure on turntable surface
272 **STORAGE MEDIUM STRUCTURE**
273 .Combined with diverse art structure
274 .Composite (e.g., package with preview record)
275.1 .Optical track structure (e.g., phase or diffracting structure, etc.)
275.2 ..Erasable, reversible or re-recordable
275.3 ..Track data format/layout
275.4 ..Pit/bubble/groove structure specifies
275.5 ..Protection (e.g., preventing damage to medium, etc.)
276 .Electrical track structure
277 .Special groove (e.g., particular groove shape)
278 ..Groove acts as control system signal

279 ..Guide during storage or retrieval
280 .Specific disc profile
281 ..With interdisc coupling
282 .Specified center hole or locating structure
283 .Layered (e.g., permanent protective layer)
284 ..Radiation beam modified or controlling (e.g., photosensitve, optical track)
285 ...With mask
286 ..Laminated or unified discrete layers
287 .Flexible
288 .Specified material
289 .Adjuncts or adapters
290 ..For central area of disc (e.g., hole size or drive sticker)
291 ..Protectors
292 **MISCELLANEOUS**

FOREIGN ART COLLECTIONS

FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

FOR 100 **SIGNAL PROCESSING BY STORAGE AND SUBSEQUENT RETRIEVAL (E.G., FREQUENCY SHIFT, DELAY, ETC.) (369/60)**
SPECIFIC DETAIL OF INFORMATION HANDLING PORTION OF SYSTEM (369/99)
.Radiation beam modification of or by storage medium (369/100)
FOR 101 ..With details of electrical signal processing (369/124)
FOR 102 **CONTROL OF STORAGE OR RETRIEVAL BY A SIGNAL TO BE RECORDED OR REPRODUCED (369/47)**
FOR 103 .Control of information signal channel (369/48)
FOR 104 ..Of plural interrelated channels (369/49)
FOR 105 .Mechanism control by information signal (e.g., voice responsive) (369/50)
FOR 106 ..Control of spiral track spacing (e.g., signal variable pitch) (369/51)
FOR 107 **CONTROL STRUCTURE ON STORAGE MEDIUM SENSED BY OTHER THAN TRANSDUCER SUPPORT (E.G., CONDUCTIVE STRIP, NOTCHED EDGE SENSOR) (369/52)**
FOR 108 **WITH CONDITION INDICATING (E.G., MONITORING) OR TESTING (369/53)**
FOR 109 .With radiation storage or retrieval (369/54)
FOR 110 .Of transducer (369/55)
FOR 111 ..Location on storage medium (369/56)
FOR 112 ..Positioning adjunct (e.g., indexing) (369/57)
FOR 113 .Of record carrier (369/58)
FOR 114 **WITH BINARY PULSE TRAIN INFORMATION SIGNAL (369/59)**
SPECIFIC DETAIL OF INFORMATION HANDLING PORTION OF SYSTEM (369/99)
.Radiation beam modification of or by storage (369/100)
FOR 115 ..With diffraction (e.g., pits, grating (369/109)
FOR 116 ..By polarization (369/110)
FOR 117 ..With particular imaging element (369/112)
FOR 118 **STORAGE DIFFERENT FROM RETRIEVAL (E.G., OPTICAL RECORDING AND MAGNETIC REPRODUCTION) (369/13)**
FOR 119 **OPERATOR-ACTUATED REMOTE CONTROL OR INFORMATION LOCATION (369/24)**
FOR 120 .Dictation or transcribing (369/25)
FOR 121 ..Privacy (369/26)
FOR 122 ..With access to or marking of specified location (e.g., indexing) (369/27)
FOR 123 ...By stored additional signal (e.g., tone) (369/28)
FOR 124 ..Remote station (e.g., multiple stations or recording devices) (369/29)

FOR 125 .Selective addressing of storage medium (e.g., programmed access, "juke box") (369/30)
FOR 126 ..Novelty device (e.g., talking doll) (369/31)
FOR 127 ..With specified electrical information signal processing (369/32)
FOR 128 ..With specified electrical control signal processing (369/33)
FOR 129 ...Plural storage medium elements (369/34)
FOR 130 ..Plural nontranslating storage elements (e.g., in situ) (369/35)
FOR 131 ..With unitary plural disc carrier (369/36)
FOR 132 ...Radial array (369/37)
FOR 133 ...Moving linear array (369/38)
FOR 134 ...Scanning turntable (369/39)
FOR 135 ..By manually actuated mechanism for movement of tone arm (369/40)
FOR 136 ..Of track on single storage medium (369/41)
FOR 137 .By mechanical linkage (369/42)
DYNAMIC MECHANISM SUBSYSTEM (369/176)
FOR 138 .Access of multiple storage elements (e.g., record changer) (369/178)